

# WEST Search History for Application 10540952

Creation Date: 2008092121:58

Query	DB	Op.	Plur.	Thes.	Date
((magnetic adj resonan\$2) or MRI or NMR)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			03-16-2008
((magnetic adj resonan\$2) or MRI or NMR) ) and (phas\$4)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			03-16-2008
((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) ) and (half or middle or midway or mid-way or "mid way" or inbetween or center)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			03-16-2008
((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) ) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation")	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			03-16-2008
((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") ) and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			03-16-2008
((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave	PGPB, USPT, USOC, EPAB,	ADJ			03-16-2008

formation") and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) ) and ("180" or (oppos\$4 with (polarity or direction or phase)))	JPAB, DWPI, TDBD				
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((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) and ("180" or (oppos\$4 with (polarity or direction or phase))) and ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) ) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (half or middle or midway or mid-way or "mid way" or inbetween or center) same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ("180" or (oppos\$4 with (polarity or direction or phase))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			03-16-2008
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(((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or	PGPB, USPT, USOC,	ADJ			03-16-2008

<p>wave-formation or wave-form or waveform or "wave formation") and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) and ("180" or (oppos\$4 with (polarity or direction or phase))) and ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (half or middle or midway or mid-way or "mid way" or inbetween or center) same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ("180" or (oppos\$4 with (polarity or direction or phase)))) and (sense or sensitivity or sensitivities or sensing or sensed) and (profil\$4 or trajectory or path) and ((sense or sensitivity or sensitivities or sensing or sensed) same (profil\$4 or trajectory or path)) ) and (array or ((plurality or multi or multiple) with coil))</p>	<p>EPAB, JPAB, DWPI, TDBD</p>				
<p>((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) and ("180" or (oppos\$4 with (polarity or direction or phase))) ) and ((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same (phas\$4) same ("180" or (oppos\$4 with (polarity or direction or phase))))</p>	<p>PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD</p>	<p>ADJ</p>			<p>03-16-2008</p>
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altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same (phas\$4) same ("180" or (oppos\$4 with (polarity or direction or phase)))) ) and ((sense or sensitivity or sensitivities or sensing or sensed) same (profil\$4 or trajectory or path))					
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20060091884	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			03-16-2008
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((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) and ("180" or ((oppos\$4 or revers\$4)with (polarity or direction or phase))) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4))) and ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (half or middle or midway or mid-way or "mid way" or inbetween or center) same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ("180" or ((oppos\$4 or revers\$4)with (polarity or direction or phase))) and (array or ((plurality or multi or multiple or group or "set") with (coil or probe or antenna or winding or turn))) and ((select\$4 or choose or choosing or chosen) same (acquir\$3 or acquisition or excitation or excit\$4)) and (local\$4) ) and ((sense or sensitivity or sensitivities or sensing or sensed) same (profil\$4 or trajectory or path))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-16-2008
((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave	PGPB, USPT, USOC, EPAB,	ADJ	YES		03-16-2008

formation") and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) and ("180" or ((oppos\$4 or revers\$4)with (polarity or direction or phase))) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4))) and ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (half or middle or midway or mid-way or "mid way" or inbetween or center) same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ("180" or ((oppos\$4 or revers\$4)with (polarity or direction or phase)))) and (array or ((plurality or multi or multiple or group or "set") with (coil or probe or antenna or winding or turn))) ) and ((sense or sensitivity or sensitivities or sensing or sensed) same (profil\$4 or trajectory or path))	JPAB, DWPI, TDBD				
((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) and ("180" or ((oppos\$4 or revers\$4)with (polarity or direction or phase))) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4))) and ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (half or middle or midway or mid-way or "mid way" or inbetween or center) same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ("180" or ((oppos\$4 or revers\$4)with (polarity or direction or phase)))) and (array or ((plurality or multi or multiple or group or "set") with (coil or probe or antenna or winding or turn))) and ((sense or sensitivity or sensitivities or sensing or sensed) same (profil\$4 or trajectory or path)) ) not (((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-16-2008

or varying or switch or switching or switched or switchable or shift\$4) and ("180" or ((oppos\$4 or revers\$4)with (polarity or direction or phase))) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4))) and ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (half or middle or midway or mid-way or "mid way" or inbetween or center) same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ("180" or ((oppos\$4 or revers\$4)with (polarity or direction or phase))) and (array or ((plurality or multi or multiple or group or "set") with (coil or probe or antenna or winding or turn))) and ((select\$4 or choose or choosing or chosen) same (acquir\$3 or acquisition or excitation or excit\$4)) and (local\$4) and ((sense or sensitivity or sensitivities or sensing or sensed) same (profil\$4 or trajectory or path)) )					
((324/300-322.ccls.) of (600/407-435.ccls.))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-16-2008
((324/300-322.ccls.) or (600/407-435.ccls.))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-16-2008
((324/300-322.ccls.) or (600/407-435.ccls.)) ) and (((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) and ("180" or ((oppos\$4 or revers\$4)with (polarity or direction or phase))) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4))) and ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-16-2008

formation") same (half or middle or midway or mid-way or "mid way" or inbetween or center) same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ("180" or ((oppos\$4 or revers\$4)with (polarity or direction or phase)))) and (array or ((plurality or multi or multiple or group or "set") with (coil or probe or antenna or winding or turn)))) )					
((324/300-322.ccls.) or (600/407-435.ccls.)) and ((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) and ("180" or ((oppos\$4 or revers\$4)with (polarity or direction or phase))) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4))) and ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (half or middle or midway or mid-way or "mid way" or inbetween or center) same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ("180" or ((oppos\$4 or revers\$4)with (polarity or direction or phase)))) and (array or ((plurality or multi or multiple or group or "set") with (coil or probe or antenna or winding or turn)))) ) and (((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) and ("180" or ((oppos\$4 or revers\$4)with (polarity or direction or phase))) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4))) and ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (half or middle or midway or mid-way or "mid way" or inbetween or center) same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-16-2008

switch or switching or switched or switchable or shift\$4) same ("180" or ((oppos\$4 or revers\$4)with (polarity or direction or phase)))) and (array or ((plurality or multi or multiple or group or "set") with (coil or probe or antenna or winding or turn))) and ((select\$4 or choose or choosing or chosen) same (acquir\$3 or acquisition or excitation or excit\$4)) and (local\$4) )					
20060091884	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-16-2008
(20060091884 ) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (half or middle or midway or mid-way or "mid way" or inbetween or center) same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ("180" or ((oppos\$4 or revers\$4)with (polarity or direction or phase))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-16-2008
(20060091884 ) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (half or middle or midway or mid-way or "mid way" or inbetween or center) same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ("180" or ((oppos\$4 or revers\$4) same (polarity or direction or phase))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-16-2008
(20060091884 ) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (half or middle or midway or mid-way or "mid way" or inbetween or center) same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same (180))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-16-2008
(20060091884 ) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-16-2008

(20060091884 and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) ) and ((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-16-2008
(20060091884 and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and ((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) ) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4)))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-16-2008
((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-16-2008
((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI,	ADJ	YES		03-16-2008

switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) ) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4)))	TDBD				
((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4))) ) and ((sense or sensitivity or sensitivities or sensing or sensed) same (profil\$4 or trajectory or path))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-16-2008
((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4))) and ((sense or sensitivity or sensitivities or sensing or sensed) same (profil\$4 or trajectory or path)) ) and ((magnetic adj resonan\$2) or MRI or NMR)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-16-2008
((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4))) and ((sense or sensitivity or sensitivities or sensing or sensed) same (profil\$4 or trajectory or path)) and ((magnetic adj resonan\$2) or MRI or NMR) ) and ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-16-2008
((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave	PGPB, USPT, USOC,	ADJ	YES		03-16-2008



formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4))) and ((sense or sensitivity or sensitivities or sensing or sensed) same (profil\$4 or trajectory or path)) and ((magnetic adj resonan\$2) or MRI or NMR) and ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) ) and (array or ((plurality or multi or multiple or group or "set") with (coil or probe or antenna or winding or turn)))	EPAB, JPAB, DWPI, TDBD				
((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4))) and ((sense or sensitivity or sensitivities or sensing or sensed) same (profil\$4 or trajectory or path)) and ((magnetic adj resonan\$2) or MRI or NMR) and ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) and (array or ((plurality or multi or multiple or group or "set") with (coil or probe or antenna or winding or turn))) ) and ((select\$4 or choose or choosing or chosen) same (acquir\$3 or acquisition or excitation or excit\$4))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-16-2008
((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4))) and ((sense or sensitivity or sensitivities or sensing or sensed) same (profil\$4 or trajectory or path)) and ((magnetic adj resonan\$2) or MRI or NMR) and ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) and (array or ((plurality or multi or multiple or group or "set") with (coil or probe or antenna or	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-16-2008

winding or turn))) and ((select\$4 or choose or choosing or chosen) same (acquir\$3 or acquisition or excitation or excit\$4)) ) and (local\$4)					
((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4))) and ((sense or sensitivity or sensitivities or sensing or sensed) same (profil\$4 or trajectory or path)) and ((magnetic adj resonan\$2) or MRI or NMR) and ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) and (array or ((plurality or multi or multiple or group or "set") with (coil or probe or antenna or winding or turn))) and ((select\$4 or choose or choosing or chosen) same (acquir\$3 or acquisition or excitation or excit\$4)) and (local\$4) ) and (((324/300-322.ccls.) or (600/407-435.ccls.)) )	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-16-2008
5150053.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-16-2008
5150053	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		03-16-2008
((magnetic adj resonan\$2) or MRI or NMR)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008
((magnetic adj resonan\$2) or MRI or NMR) ) and (phas\$4)	PGPB, USPT, USOC,	ADJ			09-21-2008

	EPAB, JPAB, DWPI, TDBD				
((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) ) and (half or middle or midway or mid-way or "mid way" or inbetween or center)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008
((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) ) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation")	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008
((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") ) and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008
((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) ) and ("180" or (oppos\$4 with (polarity or direction or phase)))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008
((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) and ("180" or (oppos\$4 with (polarity or direction or phase))) ) and ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008

(((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) and ("180" or (oppos\$4 with (polarity or direction or phase))) and ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) ) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (half or middle or midway or mid-way or "mid way" or inbetween or center) same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ("180" or (oppos\$4 with (polarity or direction or phase))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008
(((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) and ("180" or (oppos\$4 with (polarity or direction or phase))) and ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (half or middle or midway or mid-way or "mid way" or inbetween or center) same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ("180" or (oppos\$4 with (polarity or direction or phase)))) ) and (sense or sensitivity or sensitivities or sensing or sensed)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008
(((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) and ("180" or (oppos\$4 with (polarity or direction or phase))) and ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008

formation") same (half or middle or midway or mid-way or "mid way" or inbetween or center) same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ("180" or (oppos\$4 with (polarity or direction or phase)))) and (sense or sensitivity or sensitivities or sensing or sensed) ) and (profil\$4 or trajectory or path)					
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((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) and ("180" or (oppos\$4 with (polarity or direction or phase))) and ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (half or middle or midway or mid-way or "mid way" or inbetween or center) same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ("180" or (oppos\$4 with (polarity or direction or phase)))) and (sense or sensitivity or sensitivities or sensing or sensed)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008



<p>waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same (phas\$4) same ("180" or (oppos\$4 with (polarity or direction or phase)))) ) and (array or ((plurality or multi or multiple) with coil))</p>					
<p>((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) and ("180" or (oppos\$4 with (polarity or direction or phase))) and ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (half or middle or midway or mid-way or "mid way" or inbetween or center) same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ("180" or (oppos\$4 with (polarity or direction or phase)))) ) and (array or ((plurality or multi or multiple) with coil))</p>	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008
<p>((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) and ("180" or (oppos\$4 with (polarity or direction or phase))) and ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (half or middle or midway or mid-way or "mid way" or inbetween or center) same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ("180" or (oppos\$4 with (polarity or direction or phase)))) and (array or ((plurality or multi or multiple) with coil)) ) and ((sense or sensitivity or sensitivities or sensing or sensed) same (profil\$4 or trajectory or path))</p>	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008
<p>((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or</p>	PGPB, USPT, USOC,	ADJ			09-21-2008

<p>wave-formation or wave-form or waveform or "wave formation") and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) and ("180" or (oppos\$4 with (polarity or direction or phase))) and ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (half or middle or midway or mid-way or "mid way" or inbetween or center) same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ("180" or (oppos\$4 with (polarity or direction or phase)))) and (array or ((plurality or multi or multiple) with coil)) and ((sense or sensitivity or sensitivities or sensing or sensed) same (profil\$4 or trajectory or path)) ) and (profil\$4 or trajectory or path)</p>	<p>EPAB, JPAB, DWPI, TDBD</p>				
<p>((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) and ("180" or (oppos\$4 with (polarity or direction or phase))) and ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (half or middle or midway or mid-way or "mid way" or inbetween or center) same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ("180" or (oppos\$4 with (polarity or direction or phase)))) and (array or ((plurality or multi or multiple) with coil)) and ((sense or sensitivity or sensitivities or sensing or sensed) same (profil\$4 or trajectory or path)) and (profil\$4 or trajectory or path) ) and (coil\$3 or loop\$3 or ring or annular\$2 or anulus or winding)</p>	<p>PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD</p>	<p>ADJ</p>			<p>09-21-2008</p>
<p>((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable</p>	<p>PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD</p>	<p>ADJ</p>			<p>09-21-2008</p>



or shift\$4) and ("180" or (oppos\$4 with (polarity or direction or phase))) and ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (half or middle or midway or mid-way or "mid way" or inbetween or center) same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ("180" or (oppos\$4 with (polarity or direction or phase)))) and (array or ((plurality or multi or multiple) with coil)) and ((sense or sensitivity or sensitivities or sensing or sensed) same (profil\$4 or trajectory or path)) and (profil\$4 or trajectory or path) and (coil\$3 or loop\$3 or ring or annular\$2 or anulus or winding) ) and (current or direction or revers\$4 or arrow)					
20060091884	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008
((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) ) and ("180" or ((oppos\$4 or revers\$4)with (polarity or direction or phase)))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008
((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) and ("180" or ((oppos\$4 or revers\$4)with (polarity or direction or phase))) ) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4)))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008
((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave	PGPB, USPT, USOC, EPAB,	ADJ			09-21-2008

formation") and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) and ("180" or ((oppos\$4 or revers\$4)with (polarity or direction or phase))) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4))) ) and ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency)	JPAB, DWPI, TDBD				
((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) and ("180" or ((oppos\$4 or revers\$4)with (polarity or direction or phase))) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4))) and ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) ) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (half or middle or midway or mid-way or "mid way" or inbetween or center) same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ("180" or ((oppos\$4 or revers\$4)with (polarity or direction or phase))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008
((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) and ("180" or ((oppos\$4 or revers\$4)with (polarity or direction or phase))) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4))) and ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (half or middle or midway or mid-way or "mid way" or inbetween or center) same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ("180"	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008

or ((oppos\$4 or revers\$4)with (polarity or direction or phase)))) ) and (array or ((plurality or multi or multiple or group or "set") with (coil or probe or antenna or winding or turn)))					
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(((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) and ("180" or ((oppos\$4 or revers\$4)with (polarity or direction or phase))) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4))) and ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (half or middle or midway or mid-way or "mid way" or inbetween or center) same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ("180" or ((oppos\$4 or revers\$4)with (polarity or direction or phase)))) and (array or ((plurality or multi or multiple or	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008

group or "set") with (coil or probe or antenna or winding or turn))) and ((select\$4 or choose or choosing or chosen) same (acquir\$3 or acquisition or excitation or excit\$4)) ) and (local\$4)					
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(((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) and ("180" or ((oppos\$4 or revers\$4)with (polarity or direction or phase))) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4))) and ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (half or middle or midway or mid-way or "mid way" or inbetween or center) same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ("180"	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008

or ((oppos\$4 or revers\$4)with (polarity or direction or phase)))) and (array or ((plurality or multi or multiple or group or "set") with (coil or probe or antenna or winding or turn))) ) and ((sense or sensitivity or sensitivities or sensing or sensed) same (profil\$4 or trajectory or path))					
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group or "set") with (coil or probe or antenna or winding or turn))) and ((select\$4 or choose or choosing or chosen) same (acquir\$3 or acquisition or excitation or excit\$4)) and (local\$4) and ((sense or sensitivity or sensitivities or sensing or sensed) same (profil\$4 or trajectory or path)) )					
((((324/300  324/301  324/302  324/303  324/304  324/305  324/306  324/307  324/308  324/309  324/310  324/311  324/312  324/313  324/314  324/315  324/316  324/317  324/318  324/319  324/320  324/321  324/322).ccls.) of ((600/407  600/408  600/409  600/410  600/411  600/412  600/413  600/414  600/415  600/416  600/417  600/418  600/419  600/420  600/421  600/422  600/423  600/424  600/425  600/426  600/427  600/428  600/429  600/430  600/431  600/432  600/433  600/434  600/435).ccls.))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008
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((((324/300  324/301  324/302  324/303  324/304  324/305  324/306  324/307  324/308  324/309  324/310  324/311  324/312  324/313  324/314  324/315  324/316  324/317  324/318  324/319  324/320  324/321  324/322).ccls.) or ((600/407  600/408  600/409  600/410  600/411  600/412  600/413  600/414  600/415  600/416  600/417  600/418  600/419  600/420  600/421  600/422  600/423  600/424  600/425  600/426  600/427  600/428  600/429  600/430  600/431  600/432  600/433  600/434  600/435).ccls.)) ) and (((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) and ("180" or ((oppos\$4 or revers\$4)with (polarity or direction or phase))) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4))) and ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (half or middle or midway or mid-way or "mid way" or inbetween or center) same (different or change or changing or changed or changeable or alter or	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008

altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ("180" or ((oppos\$4 or revers\$4)with (polarity or direction or phase)))) and (array or ((plurality or multi or multiple or group or "set") with (coil or probe or antenna or winding or turn)))) )					
(((324/300  324/301  324/302  324/303  324/304  324/305  324/306  324/307  324/308  324/309  324/310  324/311  324/312  324/313  324/314  324/315  324/316  324/317  324/318  324/319  324/320  324/321  324/322).ccls.) or ((600/407  600/408  600/409  600/410  600/411  600/412  600/413  600/414  600/415  600/416  600/417  600/418  600/419  600/420  600/421  600/422  600/423  600/424  600/425  600/426  600/427  600/428  600/429  600/430  600/431  600/432  600/433  600/434  600/435).ccls.)) and ((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) and ("180" or ((oppos\$4 or revers\$4)with (polarity or direction or phase)))) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4))) and ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (half or middle or midway or mid-way or "mid way" or inbetween or center) same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ("180" or ((oppos\$4 or revers\$4)with (polarity or direction or phase)))) and (array or ((plurality or multi or multiple or group or "set") with (coil or probe or antenna or winding or turn)))) ) and (((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) and ("180" or ((oppos\$4 or revers\$4)with (polarity or direction or phase)))) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4))) and ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) and ((puls\$4 or "wave	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008

form" or wave-formation or wave-form or waveform or "wave formation") same (half or middle or midway or mid-way or "mid way" or inbetween or center) same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ("180" or ((oppos\$4 or revers\$4)with (polarity or direction or phase)))) and (array or ((plurality or multi or multiple or group or "set") with (coil or probe or antenna or winding or turn))) and ((select\$4 or choose or choosing or chosen) same (acquir\$3 or acquisition or excitation or excit\$4)) and (local\$4) )					
20060091884	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008
(20060091884 ) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (half or middle or midway or mid-way or "mid way" or inbetween or center) same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ("180" or ((oppos\$4 or revers\$4)with (polarity or direction or phase))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008
(20060091884 ) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (half or middle or midway or mid-way or "mid way" or inbetween or center) same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ("180" or ((oppos\$4 or revers\$4) same (polarity or direction or phase))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008
(20060091884 ) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (half or middle or midway or mid-way or "mid way" or inbetween or center) same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same (180))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008
(20060091884 ) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or	PGPB, USPT, USOC,	ADJ			09-21-2008



changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3))))	EPAB, JPAB, DWPI, TDBD				
(20060091884 and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) ) and ((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008
(20060091884 and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and ((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) ) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4)))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008
((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008

(((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) ) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4)))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008
(((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4))) ) and ((sense or sensitivity or sensitivities or sensing or sensed) same (profil\$4 or trajectory or path))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008
(((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4))) and ((sense or sensitivity or sensitivities or sensing or sensed) same (profil\$4 or trajectory or path)) ) and ((magnetic adj resonan\$2) or MRI or NMR)	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008
(((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4))) and ((sense or sensitivity or sensitivities or sensing or sensed) same (profil\$4 or trajectory or path)) and ((magnetic adj resonan\$2) or MRI or NMR) ) and ((radio	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008

with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency)					
(((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4))) and ((sense or sensitivity or sensitivities or sensing or sensed) same (profil\$4 or trajectory or path)) and ((magnetic adj resonan\$2) or MRI or NMR) and ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) ) and (array or ((plurality or multi or multiple or group or "set") with (coil or probe or antenna or winding or turn)))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008
(((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4))) and ((sense or sensitivity or sensitivities or sensing or sensed) same (profil\$4 or trajectory or path)) and ((magnetic adj resonan\$2) or MRI or NMR) and ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) and (array or ((plurality or multi or multiple or group or "set") with (coil or probe or antenna or winding or turn))) ) and ((select\$4 or choose or choosing or chosen) same (acquir\$3 or acquisition or excitation or excit\$4))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008
(((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4))) and ((sense or sensitivity or sensitivities or	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008

sensing or sensed) same (profil\$4 or trajectory or path)) and ((magnetic adj resonan\$2) or MRI or NMR) and ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) and (array or ((plurality or multi or multiple or group or "set") with (coil or probe or antenna or winding or turn))) and ((select\$4 or choose or choosing or chosen) same (acquir\$3 or acquisition or excitation or excit\$4)) ) and (local\$4)					
((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4))) and ((sense or sensitivity or sensitivities or sensing or sensed) same (profil\$4 or trajectory or path)) and ((magnetic adj resonan\$2) or MRI or NMR) and ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) and (array or ((plurality or multi or multiple or group or "set") with (coil or probe or antenna or winding or turn))) and ((select\$4 or choose or choosing or chosen) same (acquir\$3 or acquisition or excitation or excit\$4)) and (local\$4) ) and (((324/300  324/301  324/302  324/303  324/304  324/305  324/306  324/307  324/308  324/309  324/310  324/311  324/312  324/313  324/314  324/315  324/316  324/317  324/318  324/319  324/320  324/321  324/322).ccls.) or ((600/407  600/408  600/409  600/410  600/411  600/412  600/413  600/414  600/415  600/416  600/417  600/418  600/419  600/420  600/421  600/422  600/423  600/424  600/425  600/426  600/427  600/428  600/429  600/430  600/431  600/432  600/433  600/434  600/435).ccls.)) )	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008
5150053.pn.	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008
5150053	PGPB, USPT, USOC, EPAB, JPAB, DWPI,	ADJ			09-21-2008

	TDBD				
(((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4))) and ((sense or sensitivity or sensitivities or sensing or sensed) same (profil\$4 or trajectory or path)) and ((magnetic adj resonan\$2) or MRI or NMR) and ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) and (array or ((plurality or multi or multiple or group or "set") with (coil or probe or antenna or winding or turn))) ) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008
(((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4))) and ((sense or sensitivity or sensitivities or sensing or sensed) same (profil\$4 or trajectory or path)) and ((magnetic adj resonan\$2) or MRI or NMR) and ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) and (array or ((plurality or multi or multiple or group or "set") with (coil or probe or antenna or winding or turn))) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) ) and (simultaneous\$4 or "at the	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008

same time" or ((parallel or array\$3 or matrix) with (acquir\$3 or acquisition or excitation or excit\$4)))					
(((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4))) and ((sense or sensitivity or sensitivities or sensing or sensed) same (profil\$4 or trajectory or path)) and ((magnetic adj resonan\$2) or MRI or NMR) and ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) and (array or ((plurality or multi or multiple or group or "set") with (coil or probe or antenna or winding or turn))) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and (simultaneous\$4 or "at the same time" or ((parallel or array\$3 or matrix) with (acquir\$3 or acquisition or excitation or excit\$4))) ) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008
(((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4))) and ((sense or sensitivity or sensitivities or sensing or sensed) same (profil\$4 or trajectory or path)) and ((magnetic adj resonan\$2) or MRI or NMR) and ((radio with frequency) or radio-frequency or "radio frequency" or	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008

"rf" or radiofrequency) and (array or ((plurality or multi or multiple or group or "set") with (coil or probe or antenna or winding or turn))) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and (simultaneous\$4 or "at the same time" or ((parallel or array\$3 or matrix) with (acquir\$3 or acquisition or excitation or excit\$4))) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) ) and ((single or one or individual or separat\$3) same (simultaneous\$4 or "at the same time" or parallel with (acquir\$3 or acquisition or excitation or excit\$4)))					
((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4))) and ((sense or sensitivity or sensitivities or sensing or sensed) same (profil\$4 or trajectory or path)) and ((magnetic adj resonan\$2) or MRI or NMR) and ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) and (array or ((plurality or multi or multiple or group or "set") with (coil or probe or antenna or winding or turn))) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and (simultaneous\$4 or "at the same time" or ((parallel or array\$3 or matrix) with (acquir\$3 or acquisition or excitation or excit\$4))) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008

<p>changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and ((single or one or individual or separat\$3) same (simultaneous\$4 or "at the same time" or parallel with (acquir\$3 or acquisition or excitation or excit\$4))) ) and ((single or one or individual or separat\$3) same (simultaneous\$4 or "at the same time" or parallel) with ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) with (acquir\$3 or acquisition or excitation or excit\$4))</p>					
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frequency" or "rf" or radiofrequency) with (acquir\$3 or acquisition or excitation or excit\$4)) ) and (20060091884 and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and ((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4))) )					
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switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and ((single or one or individual or separat\$3) same (simultaneous\$4 or "at the same time" or parallel with (acquir\$3 or acquisition or excitation or excit\$4))) and ((single or one or individual or separat\$3) same (simultaneous\$4 or "at the same time" or parallel) with ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) with (acquir\$3 or acquisition or excitation or excit\$4)) ) and (((single or one or individual or separat\$3) same (simultaneous\$4 or "at the same time" or parallel) with ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) with (acquir\$3 or acquisition or excitation or excit\$4)) same ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3))))))					
33 and (((single or one or individual or separat\$3) same (simultaneous\$4 or "at the same time" or parallel) with ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) with (acquir\$3 or acquisition or excitation or excit\$4)) same ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3))))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008
(33 and (((single or one or individual or separat\$3) same (simultaneous\$4 or "at the same time" or parallel) with ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) with (acquir\$3 or acquisition or excitation or excit\$4)) same ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))))) ) and ((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008

or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same (phas\$4) same ("180" or (oppos\$4 with (polarity or direction or phase))))					
((((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) and ("180" or (oppos\$4 with (polarity or direction or phase))) ) and ((output\$3 or result) same (first or second or "1st" or "2nd" or initial42 or primary or secondary) same ((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4 or distinct) same (phas\$4) same ("180" or (oppos\$4 with (polarity or direction or phase))))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008
((((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) and ("180" or (oppos\$4 with (polarity or direction or phase))) and ((output\$3 or result) same (first or second or "1st" or "2nd" or initial42 or primary or secondary) same ((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4 or distinct) same (phas\$4) same ("180" or (oppos\$4 with (polarity or direction or phase)))))) ) and ((select\$4 or choose or choosing or chosen) same (acquir\$3 or acquisition or excitation or excit\$4))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008
((((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008

or shift\$4) and ("180" or (oppos\$4 with (polarity or direction or phase))) and ((output\$3 or result) same (first or second or "1st" or "2nd" or initial42 or primary or secondary) same ((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4 or distinct) same (phas\$4) same ("180" or (oppos\$4 with (polarity or direction or phase)))) and ((select\$4 or choose or choosing or chosen) same (acquir\$3 or acquisition or excitation or excit\$4)) ) and ((output\$3 or result) same (first or second or "1st" or "2nd" or initial42 or primary or secondary) same ("time" or temporal\$2) same ((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4 or distinct) same (phas\$4) same ("180" or (oppos\$4 with (polarity or direction or phase))))					
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direction or phas\$3)))) and ((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4))) )					
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((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) and ("180" or (oppos\$4 with (polarity or direction or phase)))) ) and ((select\$4 or choose or choosing or chosen) same (acquir\$3 or acquisition or excitation or	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008

excit\$4))					
(((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) and ("180" or (oppos\$4 with (polarity or direction or phase))) and ((select\$4 or choose or choosing or chosen) same (acquir\$3 or acquisition or excitation or excit\$4)) ) and ((local\$2 or immediate or adjacent) same (area or volume or region or zone or ROI or VOI or region))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008
(((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) and ("180" or (oppos\$4 with (polarity or direction or phase))) and ((select\$4 or choose or choosing or chosen) same (acquir\$3 or acquisition or excitation or excit\$4)) and ((local\$2 or immediate or adjacent) same (area or volume or region or zone or ROI or VOI or region)) ) and (((select\$4 or choose or choosing or chosen) same (acquir\$3 or acquisition or excitation or excit\$4)) same ((local\$2 or immediate or adjacent) same (area or volume or region or zone or ROI or VOI or region)))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008
(((magnetic adj resonan\$2) or MRI or NMR) and (phas\$4) and (half or middle or midway or mid-way or "mid way" or inbetween or center) and (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") and (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) and ("180" or (oppos\$4 with (polarity or direction or phase))) and ((select\$4 or choose or choosing or chosen) same (acquir\$3 or acquisition or excitation or excit\$4)) and ((local\$2 or immediate or adjacent) same (area or volume or region or zone or ROI or VOI or region)) and (((select\$4 or choose or choosing or chosen) same (acquir\$3 or acquisition or excitation or excit\$4)) same ((local\$2 or immediate or adjacent) same (area or volume or region or zone or ROI or VOI or region))) ) and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (half or middle or midway or mid-way or "mid way" or inbetween or center) same (different or change or changing or changed or changeable	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008

or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ("180" or ((oppos\$4 or revers\$4)with (polarity or direction or phase))))					
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((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008
((((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008

direction or phas\$3)))) ) and ((single or one or individual or separat\$3) same (simultaneous\$4 or "at the same time" or parallel) with ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) with (acquir\$3 or acquisition or excitation or excit\$4))					
(((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and ((single or one or individual or separat\$3) same (simultaneous\$4 or "at the same time" or parallel) with ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) with (acquir\$3 or acquisition or excitation or excit\$4)) ) and (20060091884 and ((puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and ((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and (simultaneous\$4 or "at the same time" or (parallel with (acquir\$3 or acquisition or excitation or excit\$4))) )	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008
(((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and ((single or one or individual or separat\$3) same (simultaneous\$4 or "at the same time" or parallel) with ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) with (acquir\$3 or acquisition or excitation or excit\$4)) ) and (((single or	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008



one or individual or separat\$3) same (simultaneous\$4 or "at the same time" or parallel) with ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) with (acquir\$3 or acquisition or excitation or excit\$4)) same (phas\$3) same ((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3))))					
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((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) ) and (((select\$4 or choose or choosing or chosen) same (acquir\$3 or acquisition or excitation or excit\$4)) same ((local\$2 or immediate or "adjacent") same (area or volume or region or zone or "ROI" or "VOI" or slice or slap or plane))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI,	ADJ			09-21-2008

switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and ((single or one or individual or separat\$3) same (simultaneous\$4 or "at the same time" or parallel) with ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) with (acquir\$3 or acquisition or excitation or excit\$4)) and (((single or one or individual or separat\$3) same (simultaneous\$4 or "at the same time" or parallel) with ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) with (acquir\$3 or acquisition or excitation or excit\$4)) same (phas\$3) same ((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and (((select\$4 or choose or choosing or chosen) same (acquir\$3 or acquisition or excitation or excit\$4)) same ((local\$2 or immediate or "adjacent") same (area or volume or region or zone or "ROI" or "VOI" or slice or slap or plane))) ) and (sense or sensitivity or sensitivities or sensing or sensed)	TDBD				
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or direction or phas\$3)))) and (((select\$4 or choose or choosing or chosen) same (acquir\$3 or acquisition or excitation or excit\$4)) same ((local\$2 or immediate or "adjacent") same (area or volume or region or zone or "ROI" or "VOI" or slice or slap or plane))) ) and ((magnetic adj resonan\$2) or MRI or NMR)					
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(((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and ((single or one or individual or separat\$3) same (simultaneous\$4 or "at the same time" or parallel) with ((radio with frequency) or radio-frequency or	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ			09-21-2008

"radio frequency" or "rf" or radiofrequency) with (acquir\$3 or acquisition or excitation or excit\$4)) and (((single or one or individual or separat\$3) same (simultaneous\$4 or "at the same time" or parallel) with ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) with (acquir\$3 or acquisition or excitation or excit\$4)) same (phas\$3) same ((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and (((select\$4 or choose or choosing or chosen) same (acquir\$3 or acquisition or excitation or excit\$4)) same ((local\$2 or immediate or "adjacent") same (area or volume or region or zone or "ROI" or "VOI" or slice or slap or plane))) and ((magnetic adj resonan\$2) or MRI or NMR) ) and (maintain\$4 or held or hold\$3 or sustain\$3 or keep\$3 or kept or constant\$2)					
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"ROI" or "VOI" or slice or slap or plane))) and ((magnetic adj resonan\$2) or MRI or NMR) and (maintain\$4 or held or hold\$3 or sustain\$3 or keep\$3 or kept or constant\$2) ) and (consistant\$2 or consistent or continuous\$2)					
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(((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and ((single or one or individual or separat\$3) same (simultaneous\$4 or "at the same time" or parallel) with ((radio with frequency) or radio-frequency or	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		09-21-2008

"radio frequency" or "rf" or radiofrequency) with (acquir\$3 or acquisition or excitation or excit\$4)) and (((single or one or individual or separat\$3) same (simultaneous\$4 or "at the same time" or parallel) with ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) with (acquir\$3 or acquisition or excitation or excit\$4)) same (phas\$3) same ((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and (((select\$4 or choose or choosing or chosen) same (acquir\$3 or acquisition or excitation or excit\$4)) same ((local\$2 or immediate or "adjacent") same (area or volume or region or zone or "ROI" or "VOI" or slice or slap or plane))) and ((magnetic adj resonan\$2) or MRI or NMR) and (maintain\$4 or held or hold\$3 or sustain\$3 or keep\$3 or kept or constant\$2) ) and (irradiation or excitation)					
(((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and (((single or one or individual or separat\$3) same (simultaneous\$4 or "at the same time" or parallel) with ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) with (acquir\$3 or acquisition or excitation or excit\$4)) and (((single or one or individual or separat\$3) same (simultaneous\$4 or "at the same time" or parallel) with ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) with (acquir\$3 or acquisition or excitation or excit\$4)) same (phas\$3) same ((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and (((select\$4 or choose or choosing or chosen) same (acquir\$3 or acquisition or excitation or excit\$4)) same ((local\$2 or immediate or	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		09-21-2008

"adjacent") same (area or volume or region or zone or "ROI" or "VOI" or slice or slap or plane))) and ((magnetic adj resonan\$2) or MRI or NMR) and (maintain\$4 or held or hold\$3 or sustain\$3 or keep\$3 or kept or constant\$2) and (irradiation or excitation) ) and ((irradiation or excitation) same (((select\$4 or choose or choosing or chosen) same (acquir\$3 or acquisition or excitation or excit\$4)) same ((local\$2 or immediate or "adjacent") same (area or volume or region or zone or "ROI" or "VOI" or slice or slap or plane)))) )					
(((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and ((single or one or individual or separat\$3) same (simultaneous\$4 or "at the same time" or parallel) with ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) with (acquir\$3 or acquisition or excitation or excit\$4)) and (((single or one or individual or separat\$3) same (simultaneous\$4 or "at the same time" or parallel) with ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) with (acquir\$3 or acquisition or excitation or excit\$4)) same (phas\$3) same ((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3)))) and (((select\$4 or choose or choosing or chosen) same (acquir\$3 or acquisition or excitation or excit\$4)) same ((local\$2 or immediate or "adjacent") same (area or volume or region or zone or "ROI" or "VOI" or slice or slap or plane))) and ((magnetic adj resonan\$2) or MRI or NMR) and (maintain\$4 or held or hold\$3 or sustain\$3 or keep\$3 or kept or constant\$2) and (irradiation or excitation) and ((irradiation or excitation) same (((select\$4 or choose or choosing or chosen) same (acquir\$3 or acquisition or excitation or excit\$4)) same ((local\$2 or immediate or "adjacent") same (area or volume or region or zone or "ROI" or "VOI" or slice or slap or plane)))) ) ) and ((phas\$3) same (irradiation or excitation) same (((select\$4 or choose or choosing or chosen) same (acquir\$3 or acquisition or excitation or excit\$4)) same	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		09-21-2008

((local\$2 or immediate or "adjacent") same (area or volume or region or zone or "ROI" or "VOI" or slice or slap or plane))) )					
(((324/300  324/301  324/302  324/303  324/304  324/305  324/306  324/307  324/308  324/309  324/310  324/311  324/312  324/313  324/314  324/315  324/316  324/317  324/318  324/319  324/320  324/321  324/322).ccls.) or ((600/407  600/408  600/409  600/410  600/411  600/412  600/413  600/414  600/415  600/416  600/417  600/418  600/419  600/420  600/421  600/422  600/423  600/424  600/425  600/426  600/427  600/428  600/429  600/430  600/431  600/432  600/433  600/434  600/435).ccls.)) ) and and ((phas\$3) same (irradiation or excitation) same (((select\$4 or choose or choosing or chosen) same (acquir\$3 or acquisition or excitation or excit\$4)) same ((local\$2 or immediate or "adjacent") same (area or volume or region or zone or "ROI" or "VOI" or slice or slap or plane)))) )	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		09-21-2008
(((324/300  324/301  324/302  324/303  324/304  324/305  324/306  324/307  324/308  324/309  324/310  324/311  324/312  324/313  324/314  324/315  324/316  324/317  324/318  324/319  324/320  324/321  324/322).ccls.) or ((600/407  600/408  600/409  600/410  600/411  600/412  600/413  600/414  600/415  600/416  600/417  600/418  600/419  600/420  600/421  600/422  600/423  600/424  600/425  600/426  600/427  600/428  600/429  600/430  600/431  600/432  600/433  600/434  600/435).ccls.)) ) and ((phas\$3) same (irradiation or excitation) same (((select\$4 or choose or choosing or chosen) same (acquir\$3 or acquisition or excitation or excit\$4)) same ((local\$2 or immediate or "adjacent") same (area or volume or region or zone or "ROI" or "VOI" or slice or slap or plane)))) )	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		09-21-2008
(((324/300  324/301  324/302  324/303  324/304  324/305  324/306  324/307  324/308  324/309  324/310  324/311  324/312  324/313  324/314  324/315  324/316  324/317  324/318  324/319  324/320  324/321  324/322).ccls.) or ((600/407  600/408  600/409  600/410  600/411  600/412  600/413  600/414  600/415  600/416  600/417  600/418  600/419  600/420  600/421  600/422  600/423  600/424  600/425  600/426  600/427  600/428  600/429  600/430  600/431  600/432  600/433  600/434  600/435).ccls.)) and ((phas\$3) same (irradiation or excitation) same (((select\$4 or choose or choosing or chosen) same (acquir\$3 or acquisition or excitation or excit\$4)) same ((local\$2 or immediate or "adjacent") same (area or volume or region or zone or "ROI" or "VOI" or slice or slap or plane)))) ) ) and ((single or one or individual or separat\$3) same (simultaneous\$4 or "at the same time" or parallel) with ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) with (acquir\$3 or	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		09-21-2008



acquisition or excitation or excit\$4))					
(((324/300  324/301  324/302  324/303  324/304  324/305  324/306  324/307  324/308  324/309  324/310  324/311  324/312  324/313  324/314  324/315  324/316  324/317  324/318  324/319  324/320  324/321  324/322).ccls.) or ((600/407  600/408  600/409  600/410  600/411  600/412  600/413  600/414  600/415  600/416  600/417  600/418  600/419  600/420  600/421  600/422  600/423  600/424  600/425  600/426  600/427  600/428  600/429  600/430  600/431  600/432  600/433  600/434  600/435).ccls.)) and ((phas\$3) same (irradiation or excitation) same (((select\$4 or choose or choosing or chosen) same (acquir\$3 or acquisition or excitation or excit\$4)) same ((local\$2 or immediate or "adjacent") same (area or volume or region or zone or "ROI" or "VOI" or slice or slap or plane))) ) and ((single or one or individual or separat\$3) same (simultaneous\$4 or "at the same time" or parallel) with ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) with (acquir\$3 or acquisition or excitation or excit\$4)) ) and ((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or wave-form or waveform or "wave formation") same (different or change or changing or changed or changeable or alter or altering or altered or vary or varied or varying or switch or switching or switched or switchable or shift\$4) same ((phase or "180" or "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or direction or phas\$3))))	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		09-21-2008
(((324/300  324/301  324/302  324/303  324/304  324/305  324/306  324/307  324/308  324/309  324/310  324/311  324/312  324/313  324/314  324/315  324/316  324/317  324/318  324/319  324/320  324/321  324/322).ccls.) or ((600/407  600/408  600/409  600/410  600/411  600/412  600/413  600/414  600/415  600/416  600/417  600/418  600/419  600/420  600/421  600/422  600/423  600/424  600/425  600/426  600/427  600/428  600/429  600/430  600/431  600/432  600/433  600/434  600/435).ccls.)) and ((phas\$3) same (irradiation or excitation) same (((select\$4 or choose or choosing or chosen) same (acquir\$3 or acquisition or excitation or excit\$4)) same ((local\$2 or immediate or "adjacent") same (area or volume or region or zone or "ROI" or "VOI" or slice or slap or plane))) ) and ((single or one or individual or separat\$3) same (simultaneous\$4 or "at the same time" or parallel) with ((radio with frequency) or radio-frequency or "radio frequency" or "rf" or radiofrequency) with (acquir\$3 or acquisition or excitation or excit\$4)) and ((half or middle or midway or mid-way or "mid way" or inbetween or center) same (puls\$4 or "wave form" or wave-formation or	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD	ADJ	YES		09-21-2008

<p>             wave-form or waveform or "wave formation") same              (different or change or changing or changed or changeable              or alter or altering or altered or vary or varied or varying or              switch or switching or switched or switchable or shift\$4)              same ((phase or "180" or "180.degree.") or ((oppos\$4 or              revers\$4) same (polarity or direction or phas\$3)))) ) and              (((single or one or individual or separat\$3) same              (simultaneous\$4 or "at the same time" or parallel) with              ((radio with frequency) or radio-frequency or "radio              frequency" or "rf" or radiofrequency) with (acquir\$3 or              acquisition or excitation or excit\$4)) same (phas\$3) same              ((half or middle or midway or mid-way or "mid way" or              inbetween or center) same (puls\$4 or "wave form" or              wave-formation or wave-form or waveform or "wave              formation") same (different or change or changing or              changed or changeable or alter or altering or altered or vary              or varied or varying or switch or switching or switched or              switchable or shift\$4) same ((phase or "180" or              "180.degree.") or ((oppos\$4 or revers\$4) same (polarity or              direction or phas\$3)))))) </p>					
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